

ABSTRACT

An automatic dual-function clutch for use on an engine-assisted vehicle comprises a case hardened ground shaft through-bored to form a hollow shaft. The hollow shaft is counter-bored on each end to accept drawn cup needle bearings on each end. One end of the shaft is pressed into or otherwise fixedly mounted to the drum hub of the centrifugal clutch. A clutch bearing is preferably pressed into the shoe assembly hub of the centrifugal clutch and fitted over the hollow shaft. A “V” belt pulley is fixedly mounted to each side of the centrifugal clutch concentric with the hubs, and the entire assembly is rotatably mounted on a second case hardened shaft, which in turn is fixedly mounted to the engine through arms on each end of the shaft.